

0 0 0 0 0

COMMON PROCESS INTERLOCKS

PALL-1702	Acc:	0 Seg.
Very Low Pressure Ultra Pure Brine Header		
PALL-2403	Acc:	0 Seg.
Very Low Pressure NaOH 32% Header		
PALL-7103	Acc:	0 Seg.
Very Low Pressure High Grade Water Header		
PALL-7204	Acc:	0 Seg.
Very Low Pressure Cooling Water Header		
FALL-1801	Acc:	0 Seg.
Very Low Flow Agitation Air to T-1801		
FALL-1802	Acc:	0 Seg.
Very Low Flow Agitation Air to T-1802		
FAHH-2407	Acc:	0 Seg.
Very High Flow High Grade Water to M-2401		
DAHH-6103	Acc:	0 Seg.
Very High Density Diluted Caustic to C-6102		
DALL-6103	Acc:	180 Seg.
Very Low Density Diluted Caustic to C-6102		
LALL-7102	Acc:	0 Seg.
Very Low level T-7101 A/B		
TAHHH-6107	Acc:	60 Seg.
Very High Temperature Hypochlorite to T-6101		
LALL-1701	Acc:	0 Seg.
Very Low Level T-1701A/B		
LAHH-2404	Acc:	0 Seg.
Very High Level T-2401		
LALL-2405	Acc:	10 Seg.
Very Low Level T-2401		
LALL-6105	Acc:	0 Seg.
Very Low Level T-6101		
LALL-6109	Acc:	0 Seg.
Very Low Level C-6102		
LAL-7701	Acc:	0 Seg.
Low Nitrogen Level U-7701		
AAHHH-6104	Acc:	0 Seg.
Very High ORP Sodium Hypochlorite to T-6101		
TAHH-6131	Acc:	0 Seg.
Very High Temperature recycle to C-6102		

COMMON MOTORS INTERLOCKS

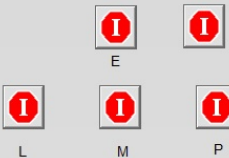
YAL-1701	Acc:	20 Seg.
Stopped P-1701A and P-1701B		
YAL-1803	Acc:	10 Seg.
Stopped P-1803A and P-1803B		
YAL-2401	Acc:	20 Seg.
Stopped P-2401A and P-2401B		
YAL-6102	Acc:	20 Seg.
Stopped P-6102A and P-6102B		
YAL-6101C	Acc:	10 Seg.
Stopped K-6101A and K-6101B		
YAL-7101	Acc:	0 Seg.
Stopped P-7101A and P-7101B		
YAL-7201	Acc:	0 Seg.
Stopped P-7201A/B/C/D		
YAL-6101	Acc:	0 Seg.
Stopped P-6101A / B		

COMMON ENVIRONMENT INTERLOCKS

AAHH-3105A	Acc:	0 Seg.
Very High Hydrogen In Air		
AAHH-3105B	Acc:	0 Seg.
Very High Hydrogen In Air		
AAHH-3105C	Acc:	0 Seg.
Very High Hydrogen In Air		
AAHH-3105D	Acc:	0 Seg.
Very High Hydrogen In Air		
AAHH-4106A	Acc:	0 Seg.
Very High Chlorine In Air		
AAHH-4106B	Acc:	0 Seg.
Very High Chlorine In Air		
AAHH-4106C	Acc:	0 Seg.
Very High Chlorine In Air		
AAHH-4106D	Acc:	0 Seg.
High Hydrogen In Air		
AAHHH-6110	Acc:	60 Seg.
Very High Chlorine In Air		

SINGLE ELECTROLYZER INTERLOCKS

PDAAHH-2102A	Acc:	0 Seg.
Very Very High Differential C12/H2 U-2101A		
PDAAH-2102A	Acc:	0 Seg.
Very High Differential C12/H2 U-2101A		
PDALL-2101A	Acc:	0 Seg.
Very Low Differential C12/H2 U-2101A		
PALL-3101A	Acc:	0 Seg.
Very Low Pressure Hydrogen Header U2101A		
PAHH-3101A	Acc:	0 Seg.
Very High Pressure Hydrogen Header U2101A		
PAHH-4103A	Acc:	0 Seg.
Very High Pressure Chlorine Header U-2101A		
PALL-4104A	Acc:	0 Seg.
Very Low Pressure Chlorine Header U-2101A		
FALL-2106A	Acc:	30 Seg.
Very Low Flow Ultra Pure Brine to U-2101A		
FALL-2107A	Acc:	0 Seg.
Very Low Flow NaOH 32% to U-2101A		
TALL-2108A	Acc:	0 Seg.
Very Low Temperature Anolyte from U-2101A		
TAHH-2108A	Acc:	0 Seg.
Very High Temperature Anolyte from U-2101A		
TALL-2109A	Acc:	0 Seg.
Very Low Temperature NaOH 32% from U-2101A		
TAHH-2109A	Acc:	0 Seg.
Very High Temperature NaOH 32% from U-2101A		
DALL-2240A	Acc:	0 Seg.
Very Low DC Current REC-2001A		
EALL-2241A	Acc:	0 Seg.
Very Low DC Voltage REC-2001A		



SINGLE ELECTROLYZER INTERLOCKS

EALL-2101A	Acc:	0 Seg.
Very Low Single Cell Voltage Trip from U-2101A		
EAHH-2101A	Acc:	0 Seg.
Very High Single Cell Voltage Trip from U-2101A		
YAL-2101A	Acc:	0 Seg.
Failure VMS U-2101A		
YAL-2244A/B	Acc:	0 Seg.
REC-2001A/B Tripped		
YAL-2247A	Acc:	0 Seg.
Unit T-2001 A/B Tripped		
YAL-2261A	Acc:	0 Seg.
REC-2001A - DC Isolator (+) Not Closed		
YAL-2263A	Acc:	0 Seg.
REC-2001A - DC Isolator (-) Not Closed		
ZAL-2201A	Acc:	0 Seg.
Hoist H-2201A Not in Safe Position		
I-8105	Acc:	0 Seg.
Emergency Shut down from CP-8101A		
I-8106	Acc:	0 Seg.
Emergency Shut down from CP-8101B		
I-8101	Acc:	0 Seg.
Shut down from CP-8101A		
I-8102	Acc:	0 Seg.
Shut down from CP-8101B		

EMERGENCY STOP

HS-2230	Acc:	0 Seg.
Control Room Emergency Stop		
HS-2231	Acc:	0 Seg.
Cell Room Emergency Stop		
HS-2232	Acc:	0 Seg.
Chlorine seal Emergency Stop		
HS-2233	Acc:	0 Seg.
Cell Room Emergency Stop		
HS-2234	Acc:	0 Seg.
Shut down from HMI		

LOAD REDUCTION INTERLOCKS

AAHH-6104	Acc:	0 Seg.
Very high ORP of hypochlorite		
PDAAH-2102A	Acc:	0 Seg.
High differential pressure H2/C12 headers		
TAH-2109A	Acc:	0 Seg.
High temperature catholyte from electrolyser		
TAH-2108A	Acc:	0 Seg.
High temperature anolyte from electrolyser		
TAHH-6107	Acc:	60 Seg.
Very high hypo temperature at outlet of C-6101		
FAL-1801	Acc:	0 Seg.
Low flow of air to dechlorinator T-1801		
AAHH-1806	Acc:	10 Seg.
Very high pH of anolyte after dechlorinator T-1801		
FALL-2407	Acc:	0 Seg.
Very low flow of high grade water to catholyte		
FAL-1802	Acc:	0 Seg.
Low flow of air to dechlorinator T-1802		

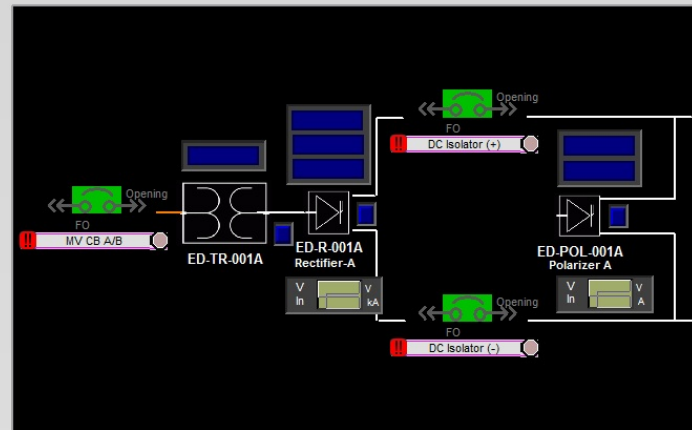
RESET TRIP

START PURGE

Prepurge Time  
Not Activated

Shutdown Time  
Finished

NOT READY TO START



9/3/2015  
1:33:39 PM

PRINT

EMERGENCY  
SHUTDOWN

SHUTDOWN  
ELECTROLYZER A  
SHUTDOWN  
ELECTROLYZER C

SHUTDOWN  
ELECTROLYZER B  
SHUTDOWN  
ELECTROLYZER D

9/3/2015 1:31:05 PM  
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[HAF\_CP\_0011]EAPV\_2241C  
[HAF\_CP\_0011]EAPV\_2241A

I/O Fault  
I/O Fault

307 41 272

